Think safety think Steelmate

STEELMATE Automotive

Model 858

Car Alarm System with

Remote Engine Start

User's manual

Manufactured by

Steelmate Co., Ltd.

Http://www.steel-mate.com

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Reasons to choose Steelmate

1. Professional manufacturer with more than 15 years history.

2. There are agents/distributors in more than 80 countries to supply local service and lont time after sale service.

3. Customizing designed products for Europe, Amerian and Asian,you can easily choose your favouriate product.

4. With more than 300 patents and more than 100 engineers, you can enjoy the latest technology.

5. Leading manufacturer in automotive industry, ISO9001, ISO/TS16949, ISO14001 and OHSAS18001 certified.

6. Products have international approvals, high quality guaranteed.

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Important notice

- It is highly recommended to read this manual carefully before using this unit.
- Please install the system by a professional technician.
- Keep the product and the transmitters away from water
- This product will help you reduce the possibility of losing the car by discouraging theft. It is not a substitute for owner's vigilance. Please take the valuables with you when leaving the car.
- When the transmitter operating distance is shorter, please change the transmitter battery ASAP.

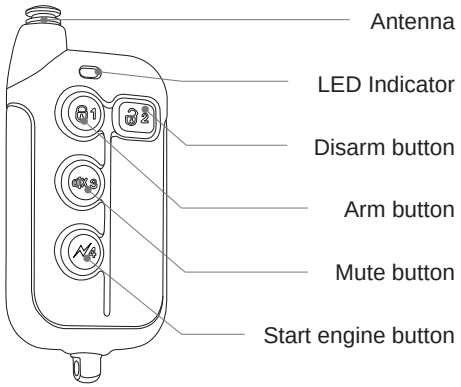
Key features

* Reserve Start
* Remote start engine (cool/warm the car)
* Code hopping
* Anti-hijack
* Valet mode
* Emergency override
* Remote trunk release
* Remote shock sensor bypass
* Engine immobilization
* Passive arm & active arm selectable
* Match central locking system

Technical specifications

Working temperature	-40* ~ +85*
Working voltage:	9V ~ 16V DC
Static current:	< 15 mA
Siren SPL:	85 ~ 125 dB
Frequency:	433.92 MHz

Brief look at transmitter



* Pull out the antenna for longer remote range

Quick reference guide of transmitter button function

Button	when engine is stop	when engine is running
🔒	Arm system & lock doors Press 2 sec for locating	lock doors
🔇	Silent arm & disarm	Press 2 sec to activate anti-hijack
🔓	Disarm system & unlock doors Press 2 sec to release trunk	Unlock doors
⚡	Press once and press it again for 2 sec to remote start engine	Press 3 seconds to activate valet mode on/off
🔇,🔒,🔇	Press 🔇 button 5 sec, press 🔒 and then press 🔇 in arming mode to bypass the shock sensor	Activate anti-hijack

Functions

This feature allows you to remotely start and run your car for a period of time. This makes it possible to warm up the engine, as well as to adjust the interior temperature of the car with the air conditioner. If interior heating or cooling is desired, the air conditioning must be preset, and the fan blower must be set to the desired level prior to remote starting the car.

Do not remote start the car in a closed garage. Make sure that the car is outdoors, or a garage door in open, or there is adequate exhaust ventilation. Failure to observe this rule could result in injury or death from poisonous Carbon Monoxide fumes. This is especially important when using the remote engine start.

Reserve start for manual car

This function is designed for a manual car, it has to set reserve start during installation before you attended to remote start engine later.

When parking the car,

(1) Pull up the hand brake.

(2) Engage to the neutral gear

(3) And then remove the ignition key and close all door, the engine will remain running.

(4) Press the button to arm the system, lock the doors and stop engine running.

* The automatic shift car does not need reserve start function.

Remote engine start

(1) In arm status, press the button, then press the button again and hold it for 2 seconds. The siren will chirp once with turn signals flashing to confirm that the car will attempt to start.

(2) Once the car has started, it runs for about 8 minutes.

While the car is running during remote start operation, the system will monitor the car and will automatically shut down the engine and the siren will chirp if the system receives any of the following shut-down inputs:

The footbrake is pressed/the door is opened/handbrake is released/ 8 minutes run time has elapsed.

Disarming the system and driving away

(3) After the engine is started, Press the button to disarm the system, open the door, insert the engine key and turn it to ON (not START) position in 30 seconds to drive away.

1. Arming

Press transmitter button to arm the system:

- The siren will chirp once.
- The turn signals will flash once.
- The doors will lock.
- The LED will start flashing slowly.

The system is armed with engine immobilized.

If the system detects the trunk is open, the siren will chirp 3 times with turn signals flashing.

If the system detects the doors are not closed completely, the siren will beep 3 times with turn signals flashing 5 seconds later.

In arming mode, the system will trigger if:

- The doors are opened.
- The trunk is opened.
- The footbrake is pressed.
- The ignition is turned on.
- The shock sensor detects an impact.

If the system is triggered by the door or trunk input, footbrake pressed or ignition ON, the siren will chirp and the turn signals will flash for 25 seconds. The engine will be immobilized.

If the shock sensor detects an impact to the car, the system will beep and the turn signals will flash 3 times to warn away the potential intruder. If the shock sensor is triggered again

in 15 seconds, the siren will chirp and the turn signals will flash for 25 seconds. The engine will be immobilized.

If the same input (except ignition) triggers the system for 4 minutes during a single arming cycle, the system will bypass that input and keeping the other zones protected until the system is armed next time.

2. Mute arming

Press 🔇 button once on the transmitter, the system will arm in mute arming mode.

- The doors will lock.
- The siren will not chirp.
- The turn signals will flash once
- The LED will start flashing slowly.

In mute arming mode, if the shock sensor is triggered, only turn signals will flash while the siren will not chirp. If the system is triggered by the door or trunk opening, footbrake pressed, ignition ON etc., the siren will chirp sharply.

3. Remote shock sensor bypass

In arming mode, press and hold 🔇 button for 5 seconds, the turn signals will turn on. Press 🔒 button once, the turn signals will flash 3 times without siren chirp, shock sensor will be bypassed. Press 🔇 button again to save the setting and exit. If no operation is detected in 10 seconds, the system will save and exit automatically.

* Factory setting: shock sensor ON. The shock sensor can be bypassed only for one arming cycle.

4. Disarming

Press 🔓 button to disarm the system:

- The siren will chirp twice in alarm arming mode, the siren will not chirp in mute arming mode.
- The turn signals will flash twice.
- The doors will unlock.

5. Auto-rearming

The Auto-rearming feature allows the system to automatically re-arm itself and lock the doors in the event the system is disarmed unintended and a door is not opened within 25 seconds. For the dome light delay car, the system will rearm 45 seconds later.

6. Car locating/panic

To sound the alarm in an emergency situation or to draw attention to your car, press and hold 🔒 button 2 seconds.

- The siren will chirp in alarm arming mode, the siren will not chirp in mute arming mode.
- The turn signals will flash.

This action will last 15 seconds. Press "🔓" button or 🔇 button to exit panic mode and rearm the system.

7. Remote trunk release

Press and hold 🔓 button for 2 seconds to release the trunk.

8. Not-armed warning & passive arming (optional)

5 seconds after the car is parked with the doors closed, the siren will chirp 3 times with the turn signals flashing to remind you to arm the system.

1 minute later, if the car is still not armed, the system will arm in mute mode automatically, and the doors will not be locked.

The passive arming will be cancelled for one cycle when one of the following action happened: Shock sensor impact, or footbrake press, ignition on or trunk open.

* The factory setting is active arming.

The passive arming function can be activated by changing the jump switch J1 in the ECU.

9. Anti-hijack (Engine immobilization optional)

This feature provides anti-hijack protection through the remote control. When the ignition is on (car is running), press and hold 🔇 button for 2 seconds, the anti-hijack feature will be triggered, 10 seconds later:

* The turn signals will flash quickly.
* The siren will chirp sharply,.
* The engine will be immobilized.

Press 🔓 button to exit.

* Factory setting is without engine immobilization. With/without engine immobilization function can be selected by changing the Jump switch J5 in the ECU.

10. Central door lock/unlock automatically

15 seconds after the engine is running, the doors will be locked automatically by pressing footbrake. When the engine stops, the doors will be unlocked automatically.

During driving, press 🔒 button to lock the doors, and press 🔓 button to unlock the doors.

11. Warning for triggered system

If the alarm was triggered while you were away from the car, after disarming the system and opening the door, the system will notify you by siren chirping and LED flashing.

* If shock sensor has been triggered, the siren will beep twice and the LED indicator will turn on for 2 seconds.
* If door/ trunk has been opened, or ACC was ON, or footbrake has been pressed, the siren will chirp 4 times and the LED indicator will turn on for 3 seconds.

12. LED indicator warning

In armed status: flashes twice every 2 seconds.

Impacted status: flashes 3 times every 2 seconds.

Door opened/ACC ON/footbrake impacted status: turns on for 2 seconds and then pauses for 2 seconds.

Disarm the system after the system is triggered: turns on for 3 seconds.

13. Status preserving

If the power is cut off, the system will return to the former status in 5 seconds when the power is on again.

14. Emergency override

If the transmitter is lost or fails to operate, the system can be disarmed by using the emergency override feature.

To override the system:

1) Enter the car with key.

As the system is armed, the siren will chirp.

2) Keep the door open, press and hold the footbrake in 5 seconds.

3) Turn the key from ignition OFF to ignition ON 10 times continuously in 5 seconds and stop at ON position for 2 seconds.

* The siren will stop sounding.
* The starter defeat will be bypassed.
* The system will be disarmed.

15. Valet mode

When the system is placed into the valet mode, the security system will be disabled. However, remote door lock/unlock and remote trunk release will be still functional. The valet feature can be turned on or off by the transmitter.

1) Make sure the system is disarmed.

2) Turn the ignition key on.

3) Press and hold button 📈 for 3 seconds.

* The siren will chirp once to enter valet mode or twice for exit.
* The LED will turn on to indicate the system is in valet mode, or turn off to indicate the system exits valet mode.

16. Transmitter programming

Press the learning button in the ECU, the LED indicator will turn on. Press 🔒 button once on a transmitter, the LED indicator will flash quickly to indicate the successful programming of the transmitter; repeat this process on the second transmitter. Only two transmitters are functional for one car alarm system.

Troubleshooting

1. The continuous chirping of the siren cannot be stopped by transmitter after the installation of ECU.
- The wire is improperly connected.
- The transmitter does not match the ECU.
- The siren is damaged.
- The fuse of the ECU is broken.

2. Turn signals don't flash after disarming the system and opening the door, or the siren does not chirp when the door is opened without disarming.
- Door trigger wire is not connected properly.
- Door switch has problem.
- The siren is damaged.

3. When the car parks on roadside and armed, there are false alarms by passing heavy cars.
- The sensitivity of the sensor is too high.

4. The central door lock does not work normally or does not work at all.
- The motor of central lock is damaged.
- The wiring of central lock system is wrong.
- Fuse is broken.

5. The siren does not chirp when the alarm system is triggered.
- The siren is damaged.
- The wire connection between the siren and
- ECU has problem.

6. The siren chirps sharply in 10 seconds after arming and the same situation happened after disarming and re-arming it again.
- The sensor is damaged.
- The doors or trunk is not closed.
- The door's pin switch has problem or wiring has problem.

7. Transmitter is ineffective or the control distance decreased significantly.
- The installation location of the antenna is wrong.
- The wiring of the antenna to ECU has problem.
- Tall building, radio tower or high frequency electromagnetic wave may affect the control range.
- Low power of the battery.
- The frequency of the transmitter has been changed.
- The transmitter is broken or damaged.

Warranty

I. The unit is warranted for a limited period from the date of purchase. In the unlikely event of a defect arising in this product when used in accordance with the manufacturer's instructions, the parts would be repaired or replaced free of charge.

* It is required to show warranty card when making any warranty claims.
* The model and serial number on unit must be the same as the information on the warranty card.

II. This warranty is non-transferable and is automatically void if:

* The original purchaser has not completed the warranty card.
* The unit's serial number is defaced, missing or altered.
* The unit has been modified or used in a manner contrary to its intended purpose.
* The unit has been damaged by accident, unreasonable use, neglect, improper installation or service.

III. The warranty does not cover damage to the unit caused by installation or removal of the unit.

STEELMATE®

STEELMATE WARRANTY CARD

Dear user:

Thank you for choosing “Steelmate” product.
Please fill the form below and retain it.

User's information:

User:
Tel:
Vehicle license No.:
Product model No.:
Serial No.:
Date of installation:
Name of the retailer: Signed by distributor: